



**PHOENIX**  
TECHNOLOGY SERVICES

October 11, 2017

Oil Conservation Division  
State of New Mexico  
811 S. First St.  
Artesia, New Mexico 88210

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**OCT 16 2017**

Dear District 2 - Artesia

**RECEIVED**

Re: EOG Resources  
John AGU No. 6  
Eddy Co., NM  
API #30-015-27027  
Job No. 61311

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 606018). Other information required by your office is as follows:

| Name & Title of Surveyor | Drainhole Number | Surveyed Depths |       | Dates Performed |         | Type of Survey |
|--------------------------|------------------|-----------------|-------|-----------------|---------|----------------|
|                          |                  | From            | To    | Start           | End     |                |
| Noe Garza                | 6                | 0               | 6,599 | 5/26/17         | 5/30/17 | Gyro           |

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

*Brittany Carley*

Brittany Carley  
Operations Administrator

# SURVEY CERTIFICATION FORM



3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964

Company: EOG  
Well Name: John AGU No.6  
Survey Instrument Type: North Seek Rate Gyro

Job #: 61311  
County/State: Eddy Co., New Mexico  
API # 30-015-27027

## TIE-IN DATA

| Measure<br>Depth (ft) | Vertical<br>Depth (ft) | Inclination<br>(°) | Azimuth (°) | N-S<br>Coordinates | E-W<br>Coordinates | Data Source |
|-----------------------|------------------------|--------------------|-------------|--------------------|--------------------|-------------|
| 0                     | 0                      | 0                  | 0           | 0                  | 0                  | Surface     |

## First Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2017-05-26 | 0          | 0                  | 0           |

## Last Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2017-05-30 | 6599       | 1.60               | 321.43      |

## Projected TD Survey

| Date | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------|------------|--------------------|-------------|
| 0    | 0          | 0                  | 0           |

| Grid<br>Correction |
|--------------------|
| 0.12               |

Gyro Operator: Phoenix Technology Services USA Ltd.  
Gyro Supervisor: Angel Guebara

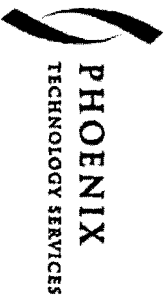
To the best of my knowledge I certify this survey data to be correct and true

Date: 5-30-2017

Print Name: Noe Garza

Signature: \_\_\_\_\_

A handwritten signature in black ink, appearing to be 'Noe Garza', written over a horizontal line.



# PHOENIX

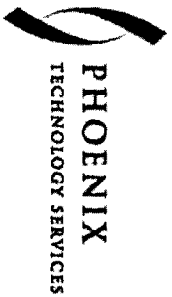
TECHNOLOGY SERVICES

Company: EOG  
Well: John AGU 6  
Location: Eddy Co., New Mexico  
Rig: Pulling Unit

Job Number: 61311  
Grid Corr.: 0.12  
Lat: 32.579189  
Long: -104.556720  
Grid Ref: NAD 83

Date: 05-30-17  
Calculation Method: Minimum Curvature  
Proposed Azimuth: Ground  
RKB - MSL in feet: Surface  
Tie Into: \_\_\_\_\_

| Survey Tool Type               | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|--------------------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                                |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| FIELD COPY, NON-DEFINITIVE     |                   |                   |               |                    |                          |                       |             |          |               |             |                          |                     |                    |
| Enter Tie-In Survey on Line 10 |                   |                   |               |                    |                          |                       |             |          |               |             |                          |                     |                    |
| TIE IN                         | 0                 |                   |               | 0                  | 0                        | 0                     | 0           | 0        |               |             |                          |                     |                    |
| Gyro                           | 100.00            | 0.53              | 64.03         | 100                | 100.00                   | 0.20                  | 0.20 N      | 0.42 E   | 0.46          | 64.03       | 0.53                     | 0.53                | 64.03              |
|                                | 200.00            | 0.49              | 69.57         | 100                | 199.99                   | 0.55                  | 0.55 N      | 1.23 E   | 1.35          | 65.78       | 0.06                     | -0.04               | 5.54               |
|                                | 300.00            | 0.52              | 64.30         | 100                | 299.99                   | 0.90                  | 0.90 N      | 2.04 E   | 2.23          | 66.21       | 0.06                     | 0.03                | -5.27              |
|                                | 400.00            | 0.66              | 71.19         | 100                | 399.99                   | 1.28                  | 1.28 N      | 3.00 E   | 3.26          | 66.82       | 0.16                     | 0.14                | 6.89               |
|                                | 500.00            | 0.20              | 59.48         | 100                | 499.98                   | 1.56                  | 1.56 N      | 3.69 E   | 4.01          | 67.13       | 0.47                     | -0.46               | -11.71             |
|                                | 600.00            | 0.38              | 17.17         | 100                | 599.98                   | 1.96                  | 1.96 N      | 3.94 E   | 4.40          | 63.52       | 0.27                     | 0.18                | -42.31             |
|                                | 700.00            | 0.58              | 359.79        | 100                | 699.98                   | 2.79                  | 2.79 N      | 4.04 E   | 4.90          | 55.39       | 0.25                     | 0.20                | 342.62             |
|                                | 800.00            | 1.44              | 38.86         | 100                | 799.96                   | 4.27                  | 4.27 N      | 4.82 E   | 6.44          | 48.47       | 1.06                     | 0.86                | -320.93            |
|                                | 900.00            | 1.72              | 58.56         | 100                | 899.92                   | 6.03                  | 6.03 N      | 6.89 E   | 9.16          | 48.81       | 0.61                     | 0.28                | 19.70              |
|                                | 1000.00           | 1.87              | 61.12         | 100                | 999.88                   | 7.60                  | 7.60 N      | 9.60 E   | 12.25         | 51.62       | 0.17                     | 0.15                | 2.56               |
|                                | 1100.00           | 1.88              | 71.31         | 100                | 1099.82                  | 8.92                  | 8.92 N      | 12.58 E  | 15.42         | 54.68       | 0.33                     | 0.01                | 10.19              |
|                                | 1200.00           | 1.92              | 69.54         | 100                | 1199.77                  | 10.03                 | 10.03 N     | 15.71 E  | 18.63         | 57.44       | 0.07                     | 0.04                | -1.77              |
|                                | 1300.00           | 1.83              | 74.14         | 100                | 1299.71                  | 11.05                 | 11.05 N     | 18.81 E  | 21.82         | 59.57       | 0.18                     | -0.09               | 4.60               |
|                                | 1400.00           | 1.90              | 68.77         | 100                | 1399.66                  | 12.09                 | 12.09 N     | 21.89 E  | 25.01         | 61.10       | 0.19                     | 0.07                | -5.37              |
|                                | 1500.00           | 1.75              | 71.24         | 100                | 1499.61                  | 13.18                 | 13.18 N     | 24.88 E  | 28.16         | 62.10       | 0.17                     | -0.15               | 2.47               |
|                                | 1600.00           | 1.99              | 75.00         | 100                | 1599.56                  | 14.12                 | 14.12 N     | 28.01 E  | 31.36         | 63.25       | 0.27                     | 0.24                | 3.76               |
|                                | 1700.00           | 1.93              | 67.83         | 100                | 1699.50                  | 15.20                 | 15.20 N     | 31.24 E  | 34.75         | 64.05       | 0.25                     | -0.06               | -7.17              |
|                                | 1800.00           | 1.86              | 71.42         | 100                | 1799.44                  | 16.35                 | 16.35 N     | 34.34 E  | 38.04         | 64.53       | 0.14                     | -0.07               | 3.59               |
|                                | 1900.00           | 2.11              | 70.83         | 100                | 1899.38                  | 17.48                 | 17.48 N     | 37.62 E  | 41.48         | 65.08       | 0.25                     | 0.25                | -0.59              |
|                                | 2000.00           | 2.10              | 71.82         | 100                | 1999.32                  | 18.65                 | 18.65 N     | 41.10 E  | 45.13         | 65.59       | 0.04                     | -0.01               | 0.99               |
|                                | 2100.00           | 1.98              | 70.94         | 100                | 2099.25                  | 19.79                 | 19.79 N     | 44.47 E  | 48.68         | 66.01       | 0.12                     | -0.12               | -0.88              |
|                                | 2200.00           | 1.97              | 69.88         | 100                | 2199.19                  | 20.94                 | 20.94 N     | 47.72 E  | 52.11         | 66.30       | 0.04                     | -0.01               | -1.06              |
|                                | 2300.00           | 1.81              | 72.09         | 100                | 2299.14                  | 22.02                 | 22.02 N     | 50.83 E  | 55.40         | 66.58       | 0.18                     | -0.16               | 2.21               |
|                                | 2400.00           | 1.73              | 70.47         | 100                | 2399.09                  | 23.01                 | 23.01 N     | 53.76 E  | 58.48         | 66.83       | 0.09                     | -0.08               | -1.62              |
|                                | 2500.00           | 1.84              | 76.45         | 100                | 2499.04                  | 23.89                 | 23.89 N     | 56.74 E  | 61.57         | 67.17       | 0.22                     | 0.11                | 5.98               |
|                                | 2600.00           | 1.64              | 74.95         | 100                | 2599.00                  | 24.64                 | 24.64 N     | 59.69 E  | 64.57         | 67.57       | 0.21                     | -0.20               | -1.50              |
|                                | 2700.00           | 1.70              | 73.09         | 100                | 2698.95                  | 25.44                 | 25.44 N     | 62.49 E  | 67.47         | 67.85       | 0.08                     | 0.06                | -1.86              |
|                                | 2800.00           | 1.75              | 72.46         | 100                | 2798.91                  | 26.33                 | 26.33 N     | 65.36 E  | 70.47         | 68.06       | 0.05                     | 0.05                | -0.63              |



# PHOENIX

TECHNOLOGY SERVICES

Company: EOG  
Well: John AGU 6  
Location: Eddy Co., New Mexico  
Rig: Pulling Unit

Job Number: 61311  
Grid Corr.: 0.12  
Lat: 32.579189  
Long: -104.556720  
Grid Ref: NAD 83

Calculation Method: Minimum Curvature  
Proposed Azimuth: RKB - MSL in feet:  
Tie Into: Ground  
Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure |       | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------|-------|--------------------------|---------------------|--------------------|
|                  | 2900.00           | 1.74              | 75.54         | 100                | 2898.86                  | 27.17                 | 27.17 N     | 68.29 E  | 73.50   | 68.30 | 0.09                     | -0.01               | 3.08               |
|                  | 3000.00           | 1.95              | 77.17         | 100                | 2998.81                  | 27.93                 | 27.93 N     | 71.42 E  | 76.68   | 68.64 | 0.22                     | 0.21                | 1.63               |
|                  | 3100.00           | 2.04              | 72.81         | 100                | 3098.75                  | 28.83                 | 28.83 N     | 74.78 E  | 80.14   | 68.91 | 0.18                     | 0.09                | -4.36              |
|                  | 3200.00           | 1.95              | 65.45         | 100                | 3198.69                  | 30.07                 | 30.07 N     | 78.02 E  | 83.62   | 68.93 | 0.27                     | -0.09               | -7.36              |
|                  | 3300.00           | 1.91              | 63.20         | 100                | 3298.63                  | 31.53                 | 31.53 N     | 81.06 E  | 86.97   | 68.75 | 0.09                     | -0.04               | -2.25              |
|                  | 3400.00           | 2.14              | 66.52         | 100                | 3398.57                  | 33.02                 | 33.02 N     | 84.26 E  | 90.50   | 68.60 | 0.26                     | 0.23                | 3.32               |
|                  | 3500.00           | 2.06              | 62.07         | 100                | 3498.50                  | 34.61                 | 34.61 N     | 87.56 E  | 94.15   | 68.43 | 0.18                     | -0.08               | -4.45              |
|                  | 3600.00           | 2.16              | 60.09         | 100                | 3598.43                  | 36.39                 | 36.39 N     | 90.78 E  | 97.80   | 68.16 | 0.12                     | 0.10                | -1.98              |
|                  | 3700.00           | 2.35              | 58.30         | 100                | 3698.36                  | 38.40                 | 38.40 N     | 94.16 E  | 101.69  | 67.81 | 0.20                     | 0.19                | -1.79              |
|                  | 3800.00           | 2.08              | 56.08         | 100                | 3798.28                  | 40.49                 | 40.49 N     | 97.41 E  | 105.49  | 67.43 | 0.28                     | -0.27               | -2.22              |
|                  | 3900.00           | 2.34              | 48.88         | 100                | 3898.21                  | 42.85                 | 42.85 N     | 100.45 E | 109.21  | 66.90 | 0.38                     | 0.26                | -7.20              |
|                  | 4000.00           | 2.20              | 46.02         | 100                | 3998.13                  | 45.53                 | 45.53 N     | 103.37 E | 112.95  | 66.23 | 0.18                     | -0.14               | -2.86              |
|                  | 4100.00           | 2.54              | 42.55         | 100                | 4098.04                  | 48.49                 | 48.49 N     | 106.25 E | 116.79  | 65.47 | 0.37                     | 0.34                | -3.47              |
|                  | 4200.00           | 2.61              | 35.28         | 100                | 4197.94                  | 51.98                 | 51.98 N     | 109.07 E | 120.82  | 64.52 | 0.33                     | 0.07                | -7.27              |
|                  | 4300.00           | 2.74              | 30.16         | 100                | 4297.83                  | 55.91                 | 55.91 N     | 111.58 E | 124.80  | 63.39 | 0.27                     | 0.13                | -5.12              |
|                  | 4400.00           | 2.93              | 20.86         | 100                | 4397.71                  | 60.36                 | 60.36 N     | 113.69 E | 128.72  | 62.04 | 0.50                     | 0.19                | -9.30              |
|                  | 4500.00           | 2.99              | 17.09         | 100                | 4497.58                  | 65.24                 | 65.24 N     | 115.37 E | 132.54  | 60.51 | 0.20                     | 0.06                | -3.77              |
|                  | 4600.00           | 2.76              | 11.10         | 100                | 4597.45                  | 70.10                 | 70.10 N     | 116.60 E | 136.05  | 58.99 | 0.38                     | -0.23               | -5.99              |
|                  | 4700.00           | 2.88              | 7.68          | 100                | 4697.33                  | 74.95                 | 74.95 N     | 117.40 E | 139.28  | 57.44 | 0.21                     | 0.12                | -3.42              |
|                  | 4800.00           | 2.84              | 6.18          | 100                | 4797.21                  | 79.90                 | 79.90 N     | 118.00 E | 142.51  | 55.90 | 0.08                     | -0.04               | -1.50              |
|                  | 4900.00           | 2.90              | 4.67          | 100                | 4897.08                  | 84.89                 | 84.89 N     | 118.47 E | 145.75  | 54.38 | 0.10                     | 0.06                | -1.51              |
|                  | 5000.00           | 2.73              | 359.32        | 100                | 4996.96                  | 89.79                 | 89.79 N     | 118.65 E | 148.80  | 52.88 | 0.31                     | -0.17               | 354.65             |
|                  | 5100.00           | 2.74              | 359.68        | 100                | 5096.85                  | 94.56                 | 94.56 N     | 118.61 E | 151.69  | 51.44 | 0.02                     | 0.01                | 0.36               |
|                  | 5200.00           | 2.64              | 358.78        | 100                | 5196.74                  | 99.25                 | 99.25 N     | 118.55 E | 154.61  | 50.06 | 0.11                     | -0.10               | -0.90              |
|                  | 5300.00           | 2.72              | 352.92        | 100                | 5296.63                  | 103.91                | 103.91 N    | 118.21 E | 157.39  | 48.68 | 0.29                     | 0.08                | -5.86              |
|                  | 5400.00           | 3.18              | 326.97        | 100                | 5396.50                  | 108.59                | 108.59 N    | 116.40 E | 159.19  | 46.99 | 1.40                     | 0.46                | -25.95             |
|                  | 5500.00           | 3.43              | 320.40        | 100                | 5496.33                  | 113.22                | 113.22 N    | 112.98 E | 159.95  | 44.94 | 0.45                     | 0.25                | -6.57              |
|                  | 5600.00           | 3.61              | 318.51        | 100                | 5596.14                  | 117.89                | 117.89 N    | 108.99 E | 160.55  | 42.75 | 0.21                     | 0.18                | -1.89              |
|                  | 5700.00           | 3.49              | 316.45        | 100                | 5695.95                  | 122.45                | 122.45 N    | 104.81 E | 161.18  | 40.56 | 0.18                     | -0.12               | -2.06              |
|                  | 5800.00           | 3.36              | 315.19        | 100                | 5795.77                  | 126.73                | 126.73 N    | 100.64 E | 161.84  | 38.45 | 0.15                     | -0.13               | -1.26              |
|                  | 5900.00           | 3.23              | 314.91        | 100                | 5895.61                  | 130.80                | 130.80 N    | 96.58 E  | 162.60  | 36.44 | 0.13                     | -0.13               | -0.28              |



# PHOENIX

TECHNOLOGY SERVICES

Company: EOG  
Well: John AGU 6  
Location: Eddy Co., New Mexico  
Rig: Pulling Unit

Job Number: 61311  
Grid Corr.: 0.12  
Lat: 32.579189  
Long: -104.556720  
Grid Ref: NAD 83

Calculation Method: Minimum Curvature  
Proposed Azimuth: Ground  
RKB - MSL in feet: Surface  
Tie Into: \_\_\_\_\_

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |         | Closure |       | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|---------|---------|-------|--------------------------|---------------------|--------------------|
|                  | 6000.00           | 3.04              | 317.14        | 100                | 5995.46                  | 134.74                | 134.74 N    | 92.79 E | 163.59  | 34.55 | 0.23                     | -0.19               | 2.23               |
|                  | 6100.00           | 2.98              | 317.58        | 100                | 6095.32                  | 138.60                | 138.60 N    | 89.23 E | 164.84  | 32.77 | 0.06                     | -0.06               | 0.44               |
|                  | 6200.00           | 2.76              | 321.13        | 100                | 6195.20                  | 142.39                | 142.39 N    | 85.96 E | 166.33  | 31.12 | 0.28                     | -0.22               | 3.55               |
|                  | 6300.00           | 2.60              | 318.81        | 100                | 6295.09                  | 145.97                | 145.97 N    | 82.96 E | 167.90  | 29.61 | 0.19                     | -0.16               | -2.32              |
|                  | 6400.00           | 2.58              | 316.36        | 100                | 6394.98                  | 149.31                | 149.31 N    | 79.91 E | 169.35  | 28.16 | 0.11                     | -0.02               | -2.45              |
|                  | 6500.00           | 2.26              | 312.81        | 100                | 6494.89                  | 152.28                | 152.28 N    | 76.91 E | 170.60  | 26.80 | 0.35                     | -0.32               | -3.55              |
|                  | 6599.00           | 1.60              | 321.43        | 99                 | 6593.84                  | 154.68                | 154.68 N    | 74.62 E | 171.74  | 25.75 | 0.73                     | -0.67               | 8.71               |

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico **NM OIL CONSERVATION**  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

**OIL CONSERVATION DIVISION**

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088 **RECEIVED**

OCT 16 2017

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210

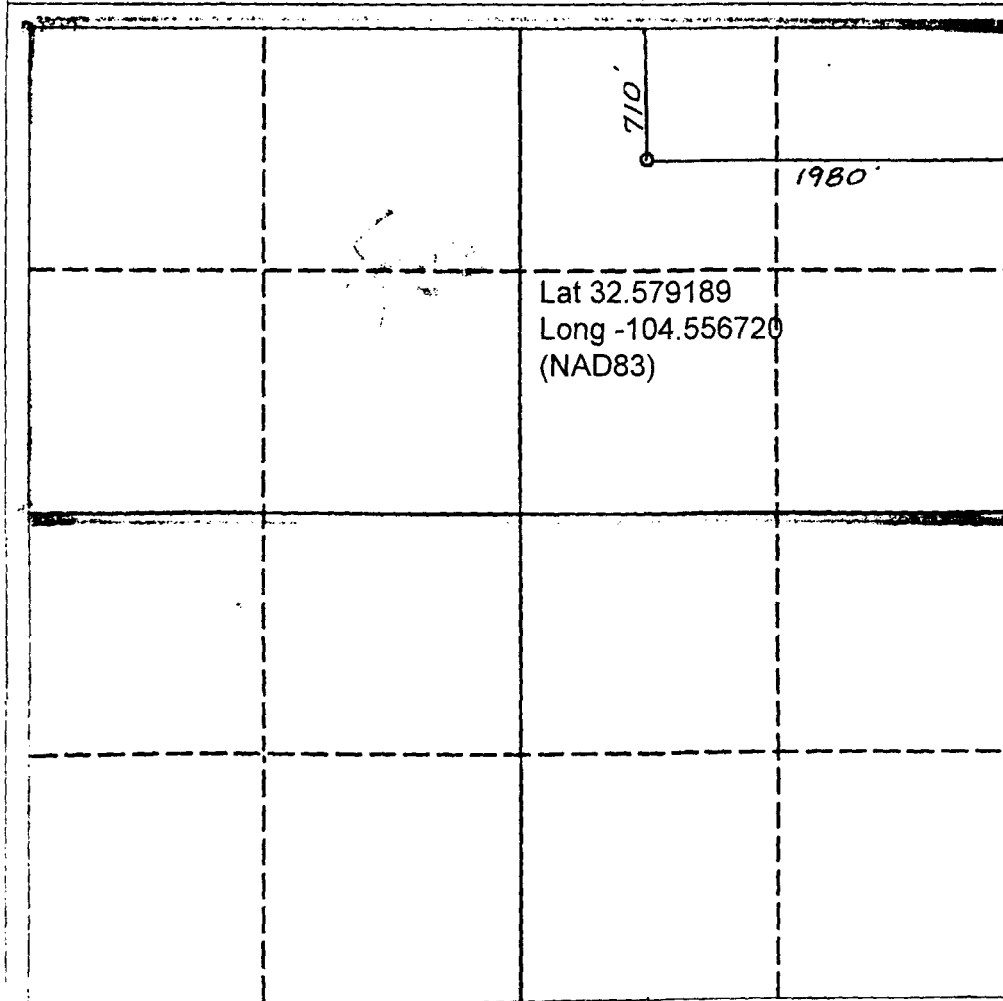
**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

|                                                                                                                               |                                           |                             |                                            |                                        |                      |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------|--------------------------------------------|----------------------------------------|----------------------|
| Operator<br><b>YATES PETROLEUM CORPORATION</b>                                                                                |                                           |                             | Lease<br><b>JOHN AGU</b>                   |                                        | Well No.<br><b>6</b> |
| Unit Letter<br><b>B</b>                                                                                                       | Section<br><b>14</b>                      | Township<br><b>20 SOUTH</b> | Range<br><b>24 EAST</b>                    | County<br><b>EDDY COUNTY, NM</b>       |                      |
| Actual Footage Location of Well:<br><b>1980</b> feet from the <b>EAST</b> line and <b>710</b> feet from the <b>NORTH</b> line |                                           |                             |                                            |                                        |                      |
| Ground level Elev.<br><b>3616.</b>                                                                                            | Producing Formation<br><b>Coco Canyon</b> |                             | Pool<br><b>South Dager Draw Upper Penn</b> | Dedicated Acreage:<br><b>320</b> Acres |                      |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☒ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary).  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

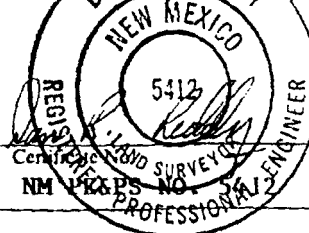
Signature  
*Ken Bourdough*  
Printed Name  
**Ken Bourdough**  
Position  
**Landman**  
Company  
**Yates Pet. Corp.**  
Date  
**6-1-92**

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**MAY 29 1992**

Signature  
*Ed Dyer*  
Professional Surveyor



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0